

Patent Application
Docket No. GJE-7169
Serial No. 10/520,323

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner : Laura Schuberg
Art Unit : 1657
Applicants : Christopher Robin Lowe, Craig J.L. Gershater, and Colin A.B. Davidson
Serial No. : 10/345,532
Conf. No. : 5107
Filed : January 5, 2005
For : Monitoring of Cells

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

DECLARATION OF CHRISTOPHER ROBIN LOWE, CRAIG J.L. GERSHATER, and COLIN
ALEXANDER BENNETT DAVIDSON UNDER 37 CFR 1.131

Sir:

We, CHRISTOPHER ROBIN LOWE, CRAIG J.L. GERSHATER, and COLIN
ALEXANDER BENNETT DAVIDSON hereby declare:

THAT, we are co-inventors of the technology described and claimed in U.S. patent
application Serial No. 10/520,323;

Being thus duly qualified, do further declare as follows:

THAT, we conceived of the subject matter of the above-referenced invention prior to May 1,
2002, as evidenced by the printouts of slides from an internal presentation given at a time prior to
May 1, 2002, attached herewith as Exhibit A.

THAT, from a time prior to May 1, 2002, we worked diligently on this invention at least until
the July 9, 2002 filing date of United Kingdom patent application No. 0215879.8, from which the
subject application claims priority.

We hereby further declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Further declarants sayeth naught.

By: _____
Christopher Robin Lowe

Date

By: _____
Craig J.L. Gershater

Date

By: _____
Colin Alexander Bennett Davidson

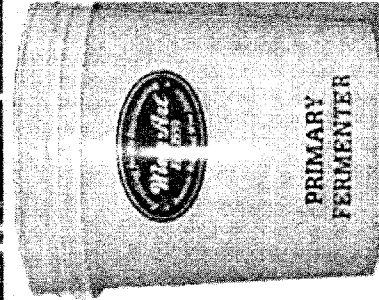
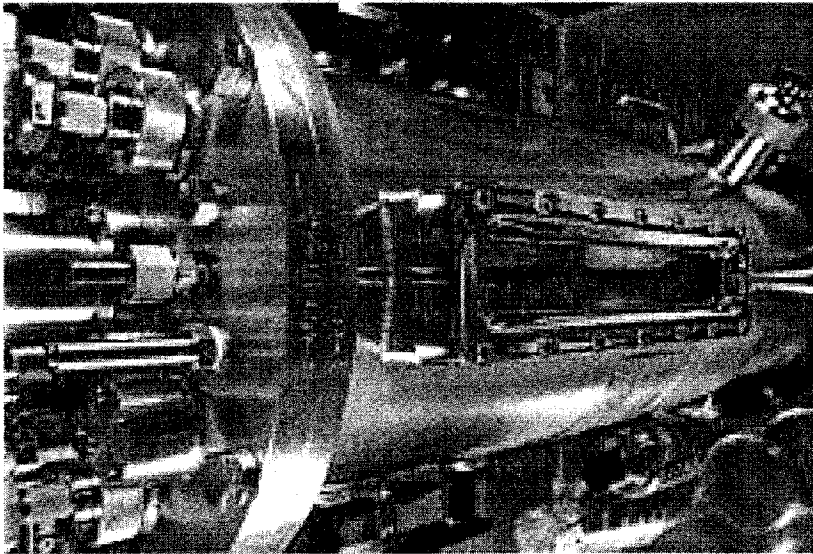
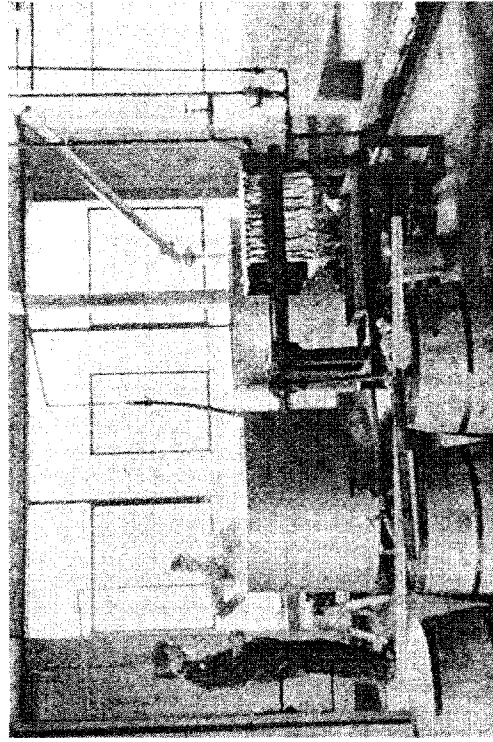
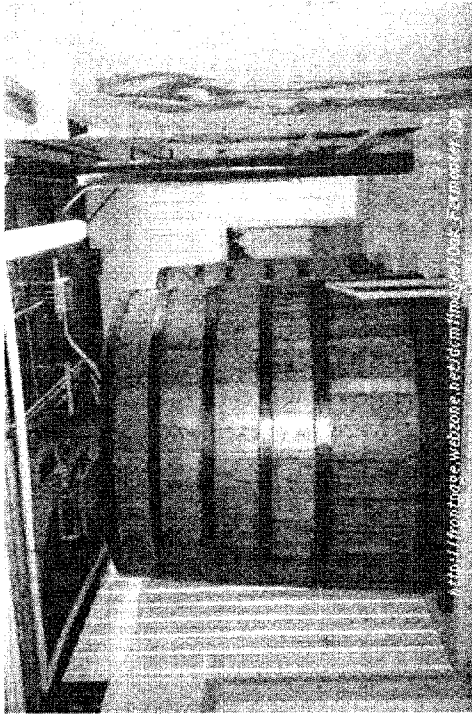
Date

EXHIBIT A

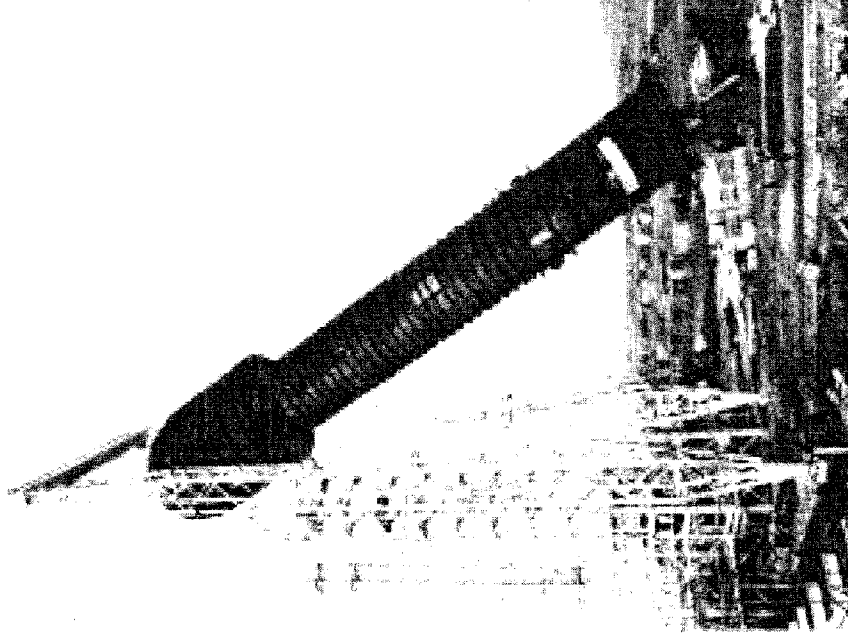
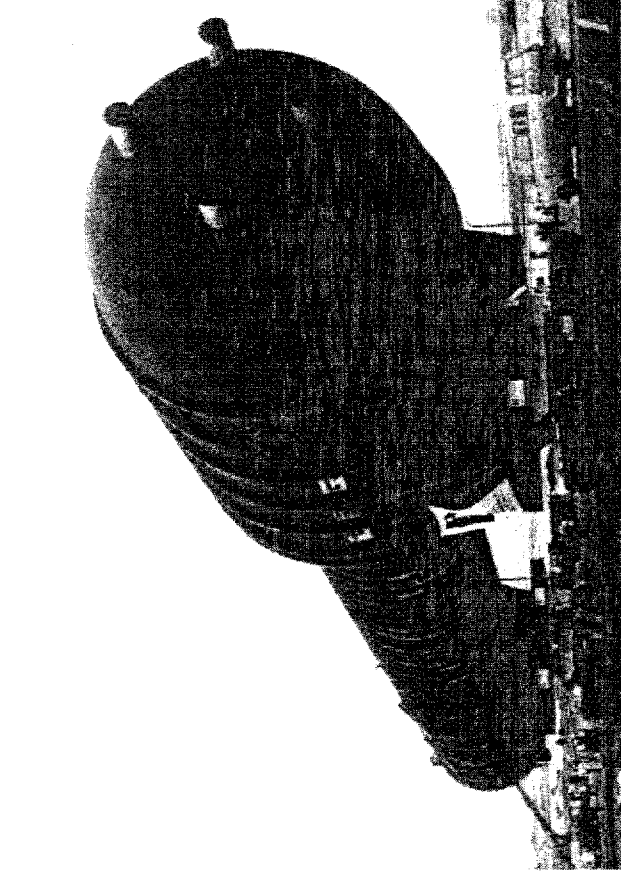
FERMENTER ON A CHIP: EPISODE 1

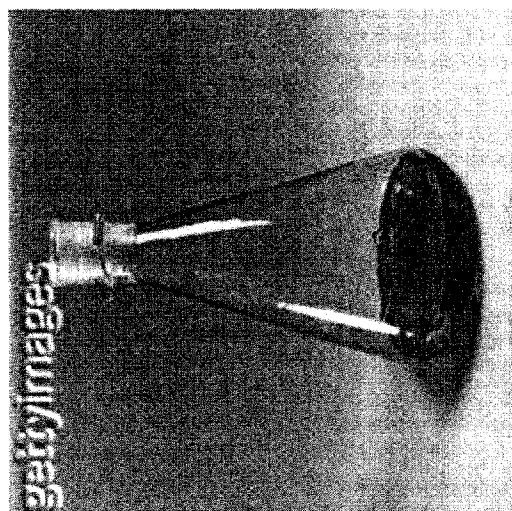
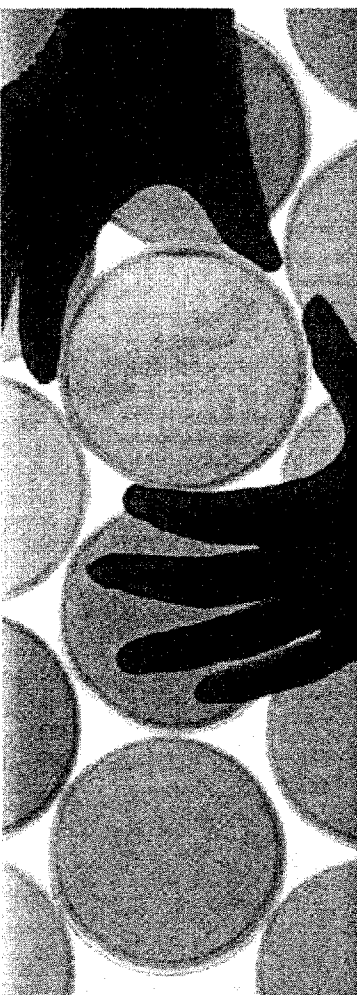
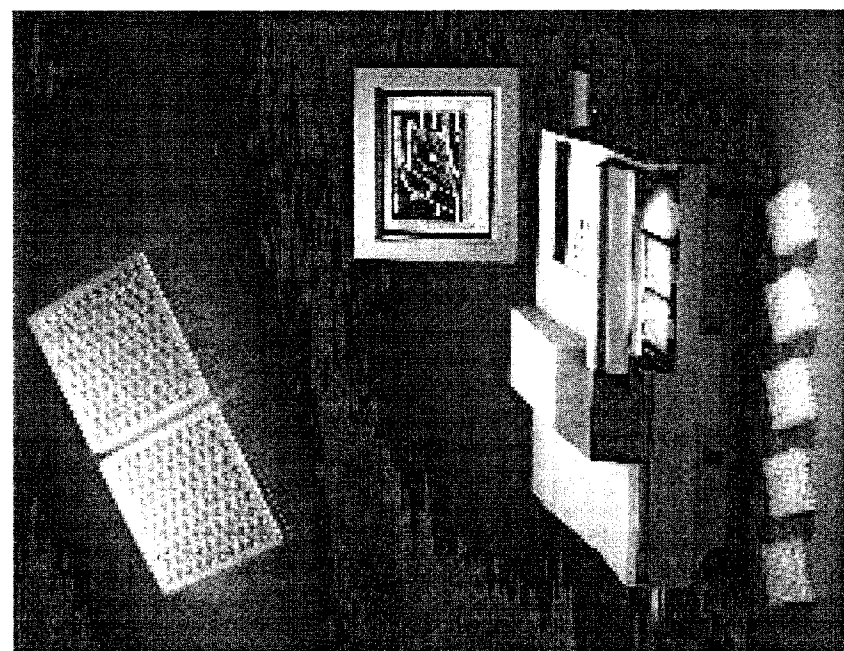
ARMED WITH HIS 'LIGHT SENSOR' THE
YOUNG SCIENTIST MOVES TO
INTERCEPT THEIR PESKY PLANS
BEFORE IT WAS TOO LATE. SMASHING
THE PROBLEM OF PH SENSING,
WALLOPING THE GOALS OF
METABOLITE DETECTION, HE NOW
TRAVELS TO THE DEPTHS OF THE
DARK ROOM TO FACE HIS NEMESIS,
DARTH OXYGEN.

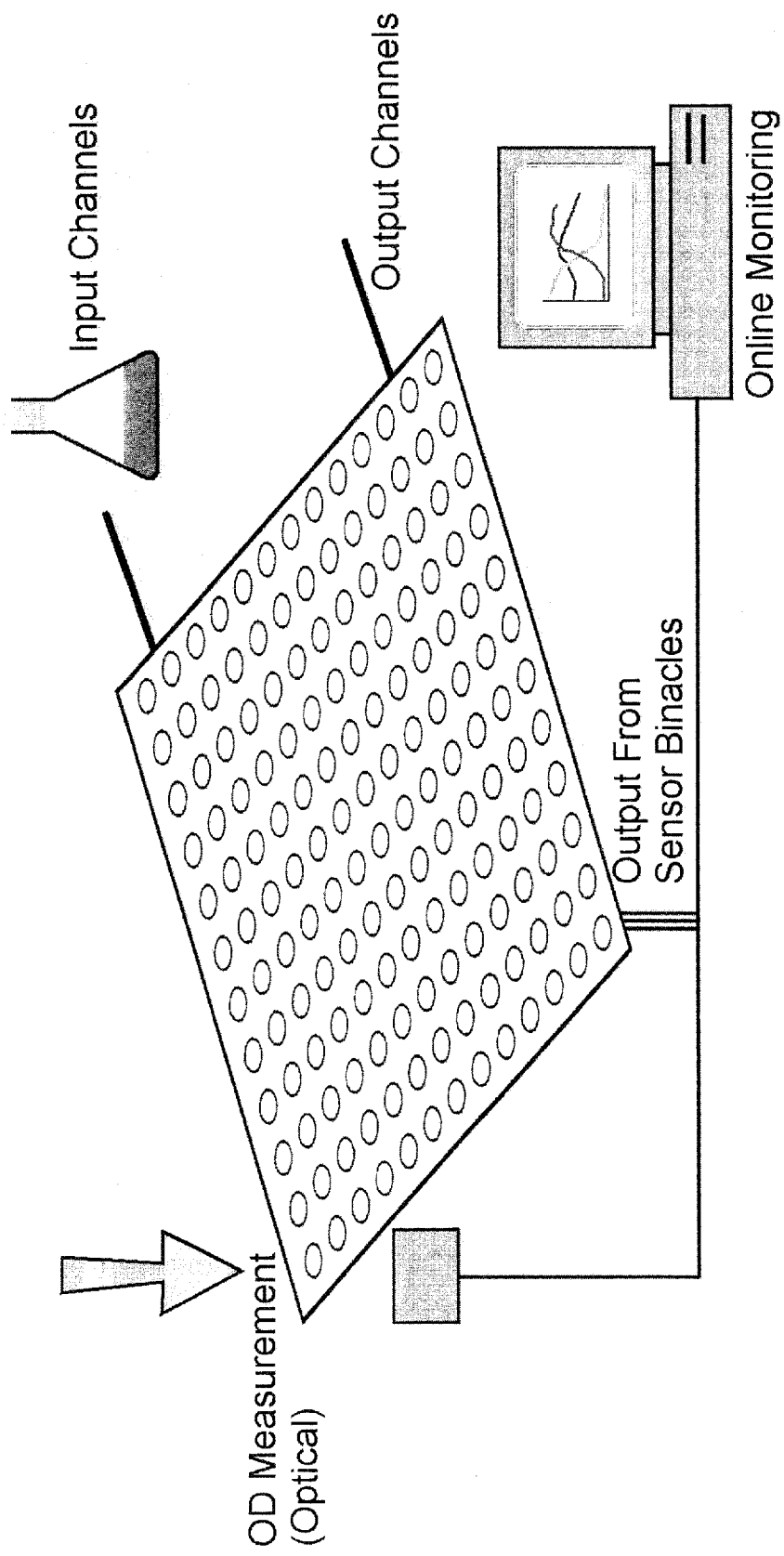
AND HE WOULD HAVE GOT AWAY
WITH IT TOO IF IT WASN'T FOR THOSE
PESKY BACTERIA...

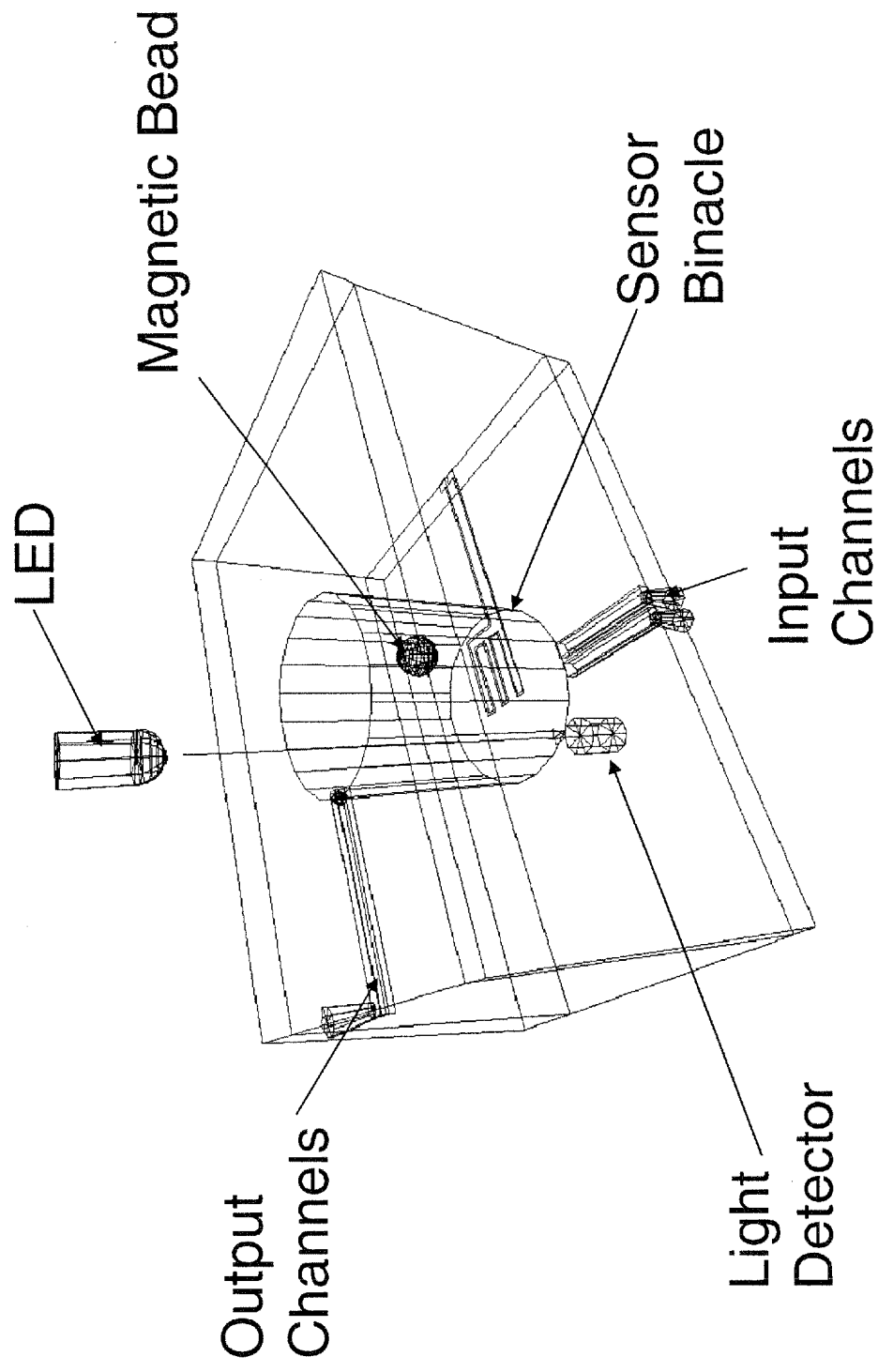


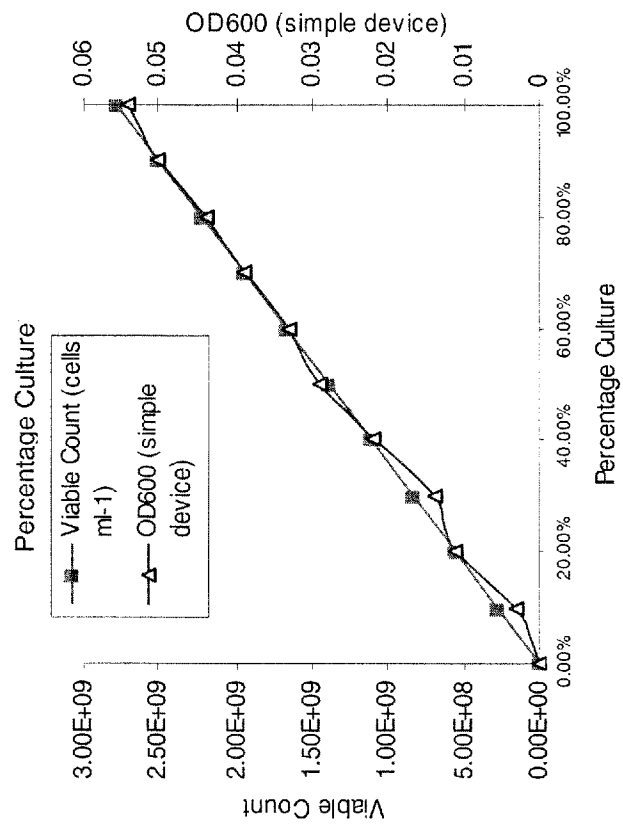
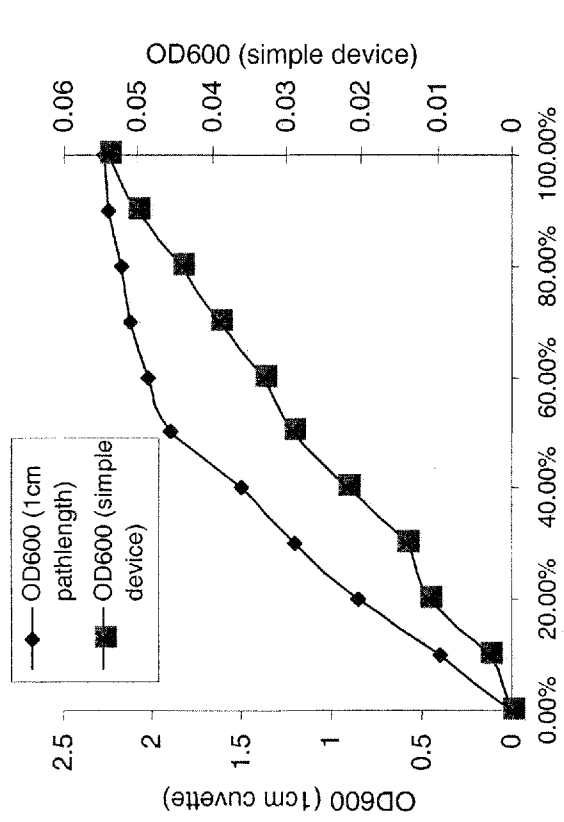
Classic Fermentation Technology...

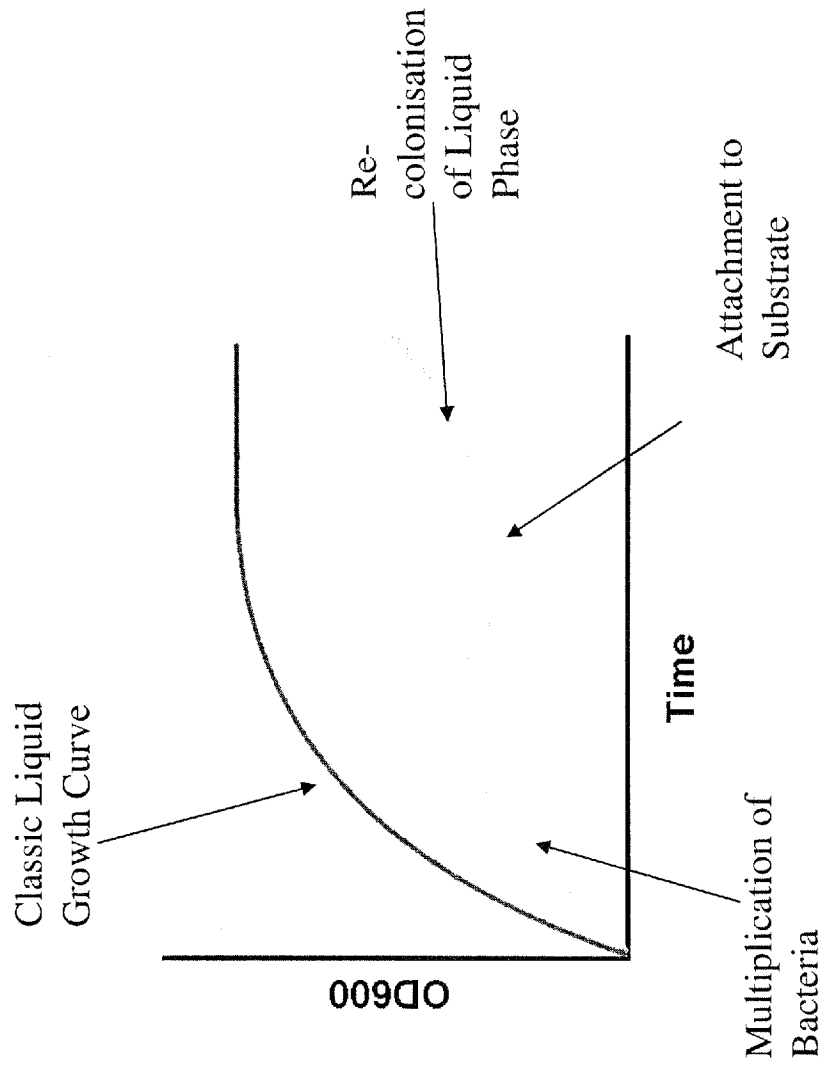
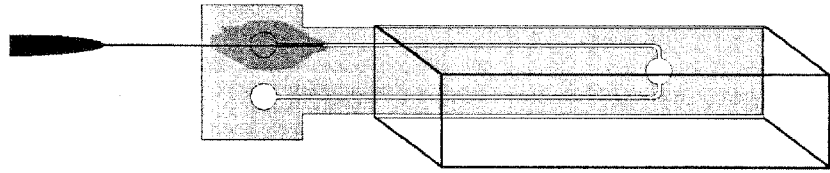
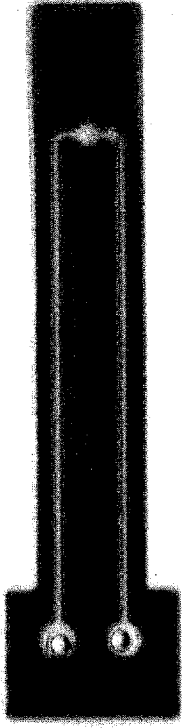










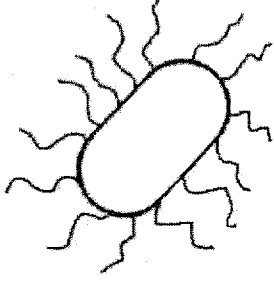


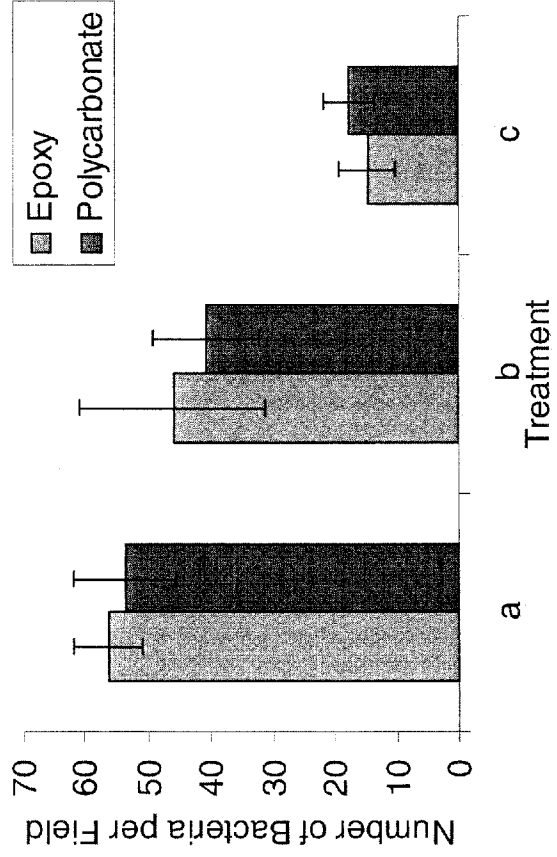
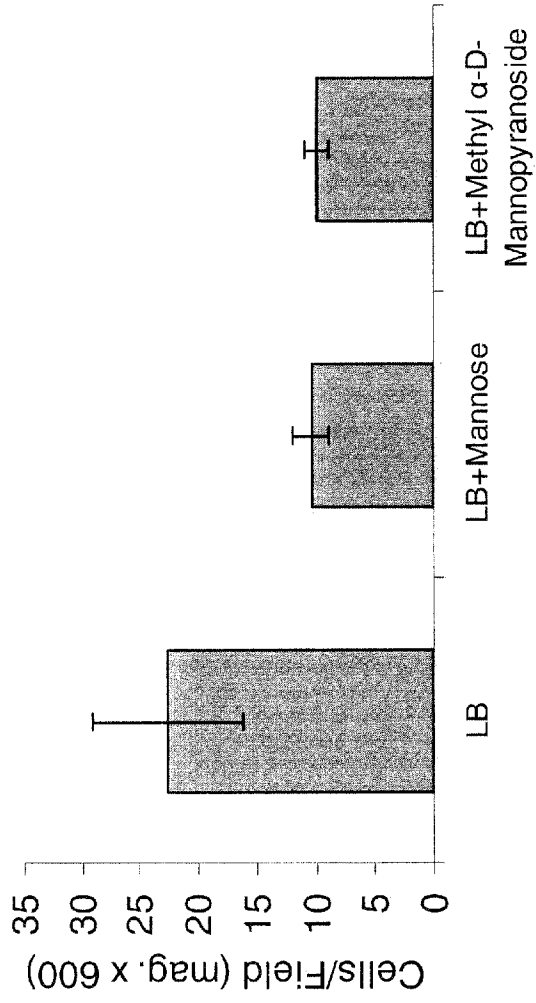
- Hydrophilicity

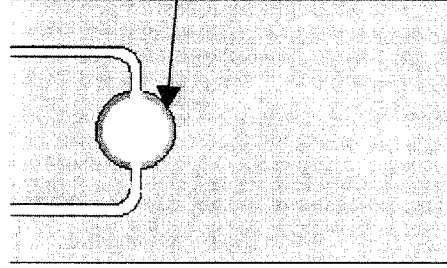
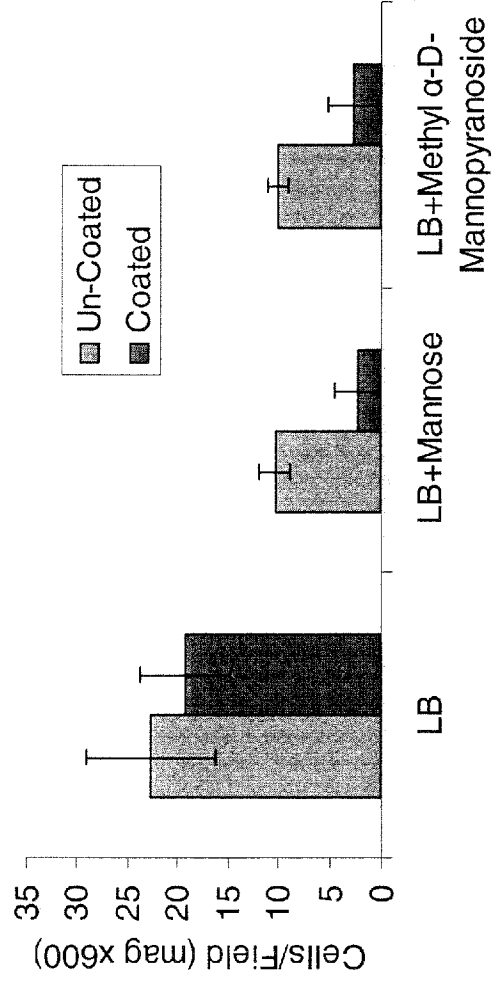
- Surface Energy

- Surface Smoothness

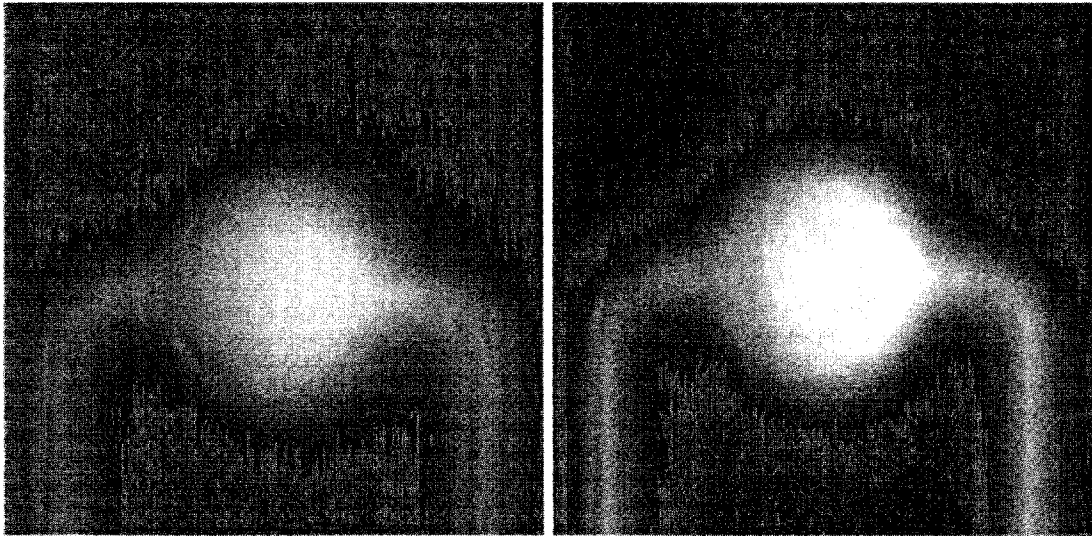
- Competition for Binding
Sites

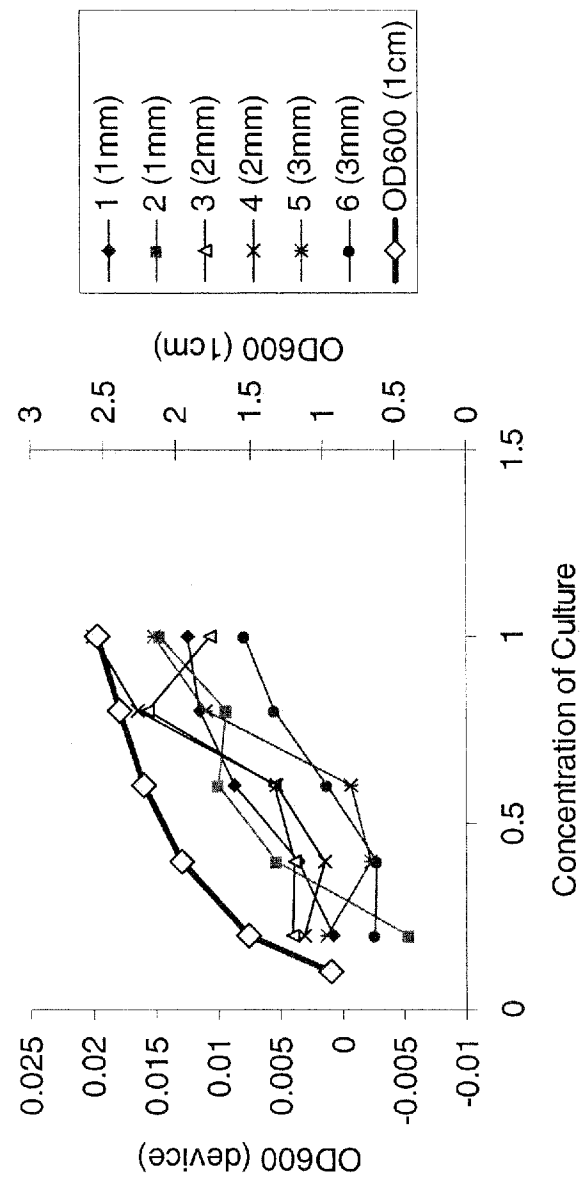
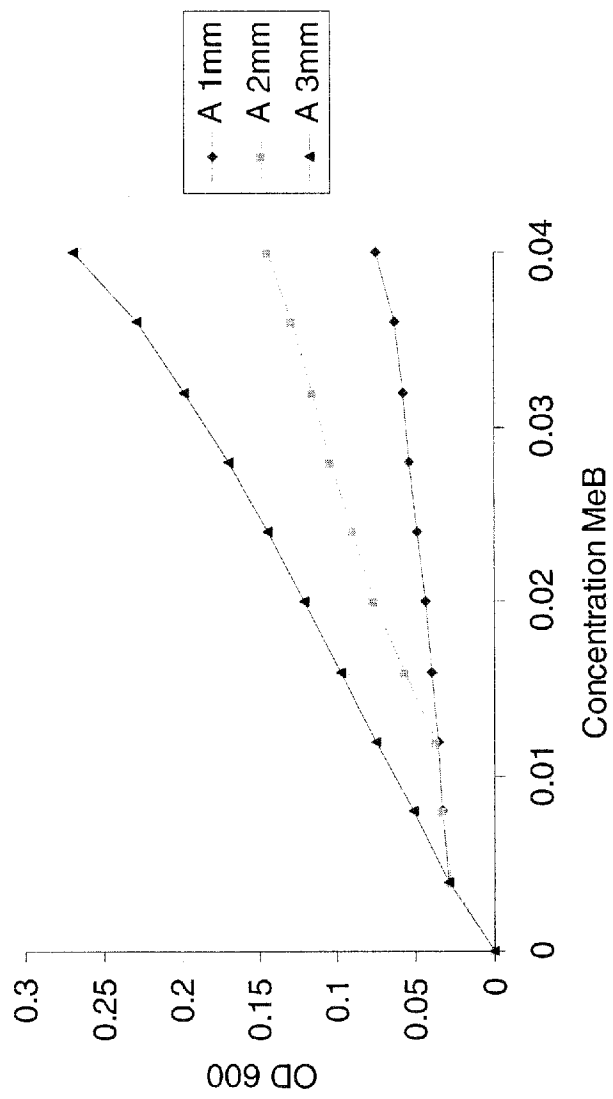


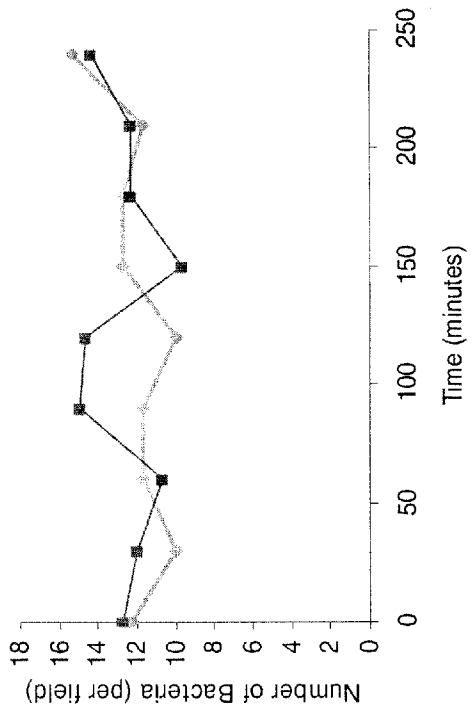




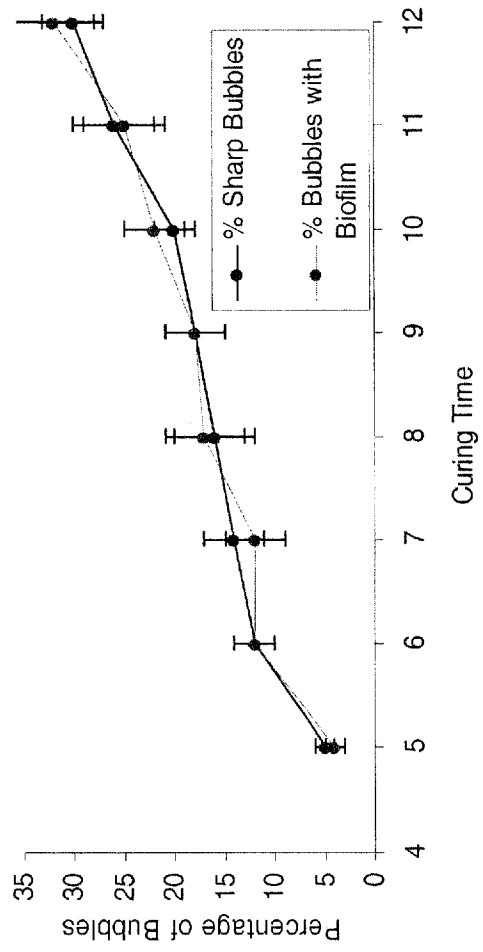
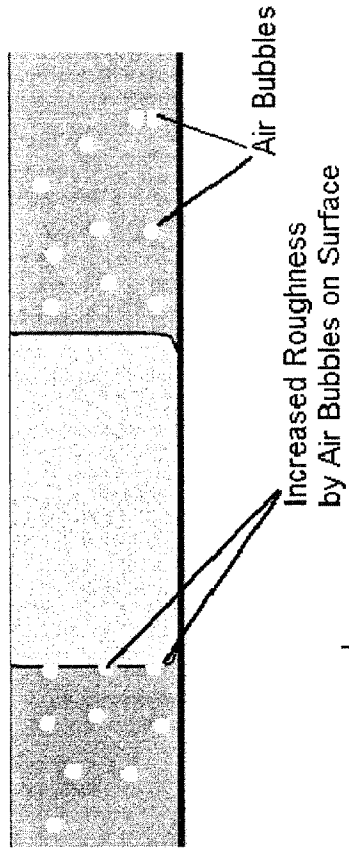
BUT There was still some attachment in the area in contact with the epoxy, most likely due to the physical conditions found there...







Epoxy
—■— LDPE



—■— % Sharp Bubbles
—◆— % Bubbles with Biofilm

